| Future Flight Design | | | |
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| **2008 Science** | | | |
| **Next Generation Sunshine State Standards** | | | |
| **Florida Science** | | | |
| **Grade 5** | | | |
| **Activity/Lesson** | **State** | **Standards** | |
| Air Transportation Problem | FL | SCI.5.SC.5.N.1.A | Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation. |
| Air Transportation Problem | FL | SCI.5.SC.5.N.1.1 | Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions. |
| Aircraft Design Problem | FL | SCI.5.SC.5.P.13.1 | Identify familiar forces that cause objects to move, such as pushes or pulls, including gravity acting on falling objects. |
| Aircraft Design Problem | FL | SCI.5.SC.5.P.13.2 | Investigate and describe that the greater the force applied to it, the greater the change in motion of a given object. |
| Aircraft Design Problem | FL | SCI.5.SC.5.P.13.3 | Investigate and describe that the more mass an object has, the less effect a given force will have on the object's motion. |
| Aircraft Design Problem | FL | SCI.5.SC.5.P.13.4 | Investigate and explain that when a force is applied to an object but it does not move, it is because another opposing force is being applied by something in the environment so that the forces are balanced. |
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| **Future Flight Design** | | | |
| **2008 Science** | | | |
| **Next Generation Sunshine State Standards** | | | |
| **Florida Science** | | | |
| **Grade 6** | | | |
| **Activity/Lesson** | **State** | **Standards** | |

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| Air Transportation Problem | FL | SCI.6.SC.6.N.1.A | Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation. |
| Air Transportation Problem | FL | SCI.6.SC.6.N.1.1 | Define a problem from the sixth grade curriculum, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions. |
| Aircraft Design Problem | FL | SCI.6.SC.6.P.12.B | The motion of objects can be changed by forces. |
| Aircraft Design Problem | FL | SCI.6.SC.6.P.13.3 | Investigate and describe that an unbalanced force acting on an object changes its speed, or direction of motion, or both. |
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| **Future Flight Design** | | | |
| **2008 Science** | | | |
| **Next Generation Sunshine State Standards** | | | |
| **Florida Science** | | | |
| **Grade 7** | | | |
| **Activity/Lesson** | **State** | **Standards** | |
| Air Transportation Problem | FL | SCI.7.SC.7.N.1.A | Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation. |
| Air Transportation Problem | FL | SCI.7.SC.7.N.1.1 | Define a problem from the seventh grade curriculum, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigation of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions. |
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| **Future Flight Design** | | | |
| **2008 Science** | | | |

| Next Generation Sunshine State Standards | | | |
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| **Florida Science** | | | |
| **Grade 8** | | | |
| **Activity/Lesson** | **State** | **Standards** | |
| Air Transportation Problem | FL | SCI.8.SC.8.N.1.A | Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation. |
| Air Transportation Problem | FL | SCI.8.SC.8.N.1.1 | Define a problem from the eighth grade curriculum using appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions. |
| Air Transportation Problem | FL | SCI.8.SC.8.N.1.6 | Understand that scientific investigations involve the collection of relevant empirical evidence, the use of logical reasoning, and the application of imagination in devising hypotheses, predictions, explanations and models to make sense of the collected evidence. |